

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	7
09/744,793	06/11/2002	Said Mansour	7024499PUR93	4646	
7590 10/28/2003			EXAMINER		7
James B Mye	rs	GAKH, YELENA G		- 12	
Woodard Emha	ardt Naughton Moriarty		*	٦١٢	
Bank One Center/Tower Suite 3700			ART UNIT	PAPER NUMBER	
111 Monument	Circle	1743		_	
Indianapolis, IN 46204			DATE MAILED: 10/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/744,793	MANSOUR ET AL.				
Office Action Summary	Examin r	Art Unit				
	Yelena G. Gakh, Ph.D.	1743				
Th MAILING DATE of this communication a Period for Reply	npp ars on the cover she two	ith the correspond nce addr ss				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a ri - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thired will apply and will expire SIX (6) MON tute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 3	<u>0 January 2001</u> .					
2a) This action is FINAL . 2b)	This action is non-final.	•				
3) Since this application is in condition for allo closed in accordance with the practice under						
Disposition of Claims						
	☐ Claim(s) 1-71 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are rejected.						
8) Claim(s) 1-71 are subject to restriction and/o	or election requirement.					
Application Papers	,					
9) The specification is objected to by the Examin	ner.					
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by t	he Examiner.				
Applicant may not request that any objection to		` '				
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the I	Examiner.					
Priority under 35 U.S.C. §§ 119 and 120		•				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	•					
<u> </u>	— — — — — — — — — — — — — — — — — — —					
<u> </u>	2. Certified copies of the priority documents have been received in Application No.					
 3. Copies of the certified copies of the prapplication from the International E * See the attached detailed Office action for a limit 	Bureau (PCT Rule 17.2(a)).	•				
14) Acknowledgment is made of a claim for dome:	stic priority under 35 U.S.C.	§ 119(e) (to a provisional application).				
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	• •					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				

Application/Control Number: 09/744,793

Art Unit: 1743

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-7, 10-17, 36-46, drawn to the apparatus comprising an oxygen sensor including a ferroelectric metal oxide, classified in class 422, subclass 82.02.

Group II, claim(s) 2, 8-9, 54-66 drawn to the apparatus comprising an oxygen sensor including a non-stoichiometric metal oxide with at least two compositional constituents, classified in class 422, subclass 186.06.

Group III, claim(s) 18-35, drawn to a method of manufacturing, classified in class 204, subclass 400.

Group IV, claims 47, 49-53 drawn to a combination comprising a metal oxide sensing member and an electrical circuit, classified in class 361, subclass 525.

Group V, claims 48, 67-71 drawn to a combination (a method for detection), classified in class 436, subclass 136.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

the inventions of Groups I, III and II, IV-V do not have common special technical feature, as the special technical feature of Groups I and III is a ferroelectric metal oxide sensing member, while the special technical feature of Groups II, IV and V is non-stoichometric metal oxides; the common technical feature of inventions of Groups I and III is a ferroelectric material, which is well known in the art, see e.g. US 4,684,207, and thus is not a special technical feature; the common technical feature of inventions of Groups II and IV-V is a non-stoichiometric metal oxide, which is well known in the art and thus is not a special technical feature;

Art Unit: 1743

the common technical feature of inventions of Group IV and V is a non-stoichiometric metal oxide and electric field, which is well known in the art, see e.g. US 3,619,381, and thus is not a special technical feature.

A telephone call was made to James B. Myers on 10/22/03 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yelena G. Gakh, Ph.D. whose telephone number is (703) 306-5906. The examiner can normally be reached on 9:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (703) 308-4037. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Yelena G. Gakh 10/22/03 Yelve Hale